Inventor Search

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L19 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:753279 HCAPLUS
DOCUMENT NUMBER: 141:242144
TITLE: L-amino acids manufacture with bacteria from **glucose** and pentose mixtures
INVENTOR(S): **Savrasova, Ekaterina Alekseevna**; **Sycheva, Elena Viktorovna**; Michrina, Tatyana Anatorievna; Kozliv, Yuri Ivanovich
PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
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DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004254694	A2	20040916	JP 2004-51056	20040226
BR 2004000577	A	20041207	BR 2004-577	20040220
US 2004229321	A1	20041118	US 2004-784980	20040225
PRIORITY APPLN. INFO.:			RU 2003-105269 A	20030226

AB The L-amino acids are manufactured from low-cost pentose mixts. obtained from cellulosic biomass as substituted for a portion of **glucose.** The pentose mixts. contain mainly arabinose and xylose. The L-amino acids are selected from L-isoleucine, L-threonine, L-tryptophan, and L-histidine. Manufacture of L-tryptophan with Escherichia coli from **glucose** and pentoses (arabinose and xylose) was shown. The production of L-tryptophan is comparable to that uses **glucose** as the sole C source.
IC ICM C12P013-04
ICS C12P013-06; C12P013-08; C12P013-22; C12P013-24
CC 16-2 (Fermentation and Bioindustrial Chemistry)
ST cellulosic biomass amino acid manuf Escherichia; **glucose** substitute amino acid manuf Escherichia
IT Carbon sources, microbial
Escherichia coli
Eubacteria
Fermentation
(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)
IT Amino acids, preparation
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)
IT Pentoses
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)
IT Gene, microbial
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(amino acid-synthesizing; L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)
IT Biomass
Solid wastes
(cellulosic; L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)

IT 71-00-1P, L-Histidine, preparation 72-19-5P, L-Threonine, preparation
73-22-3P, L-Tryptophan, preparation 73-32-5P, L-Isoleucine, preparation
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)

IT 9004-34-6, Cellulose, biological studies
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)

IT 50-99-7, D-**Glucose**, biological studies 58-86-6, D-Xylose, biological studies 5328-37-0, L-Arabinose
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)